

AUTOMATIC FOOD SERVICE EQUIPMENT

AUTOMATIC GAS BROILER MODEL 9025 (CCSI CONTROL)

OWNERS MANUAL

IMPORTANT: RETAIN THIS MANUAL IN A SAFE PLACE FOR FUTURE REFERENCE.

FOR YOUR SAFETY:

Do not store or use gasoline or other flammable vapors or liquids in the vicinity of this or any other appliance.

WARNING: Improper installation, adjustment, alteration, maintenance can cause property damage, injury, or death. Read the installation, operating and maintenance instructions thoroughly before installing or servicing this equipment.

Broiler area must be kept free of combustible materials, and the flow of combustion and ventilation air must not be obstructed. Operating personnel must not perform any maintenance or repair functions. Contact your Nieco Authorized Dealer.

In a prominent location, post instructions to be followed in the event the user smells gas. This information shall be obtained by consulting your local gas supplier.

TABLE OF CONTENTS

A.	Genera	I Information	3		
	A.1	Description	3		
		Warranty Information			
	A.3	Service/Technical Assistance	4		
	A.4	Safety Information	4		
В.	Machin	e Installation	6		
	B.1	Pre-Installation	6		
	B.2	Mounting	6		
	B.3	Leveling	6		
	B.4	Hood Requirements	7		
	B.5	Clearance	7		
	B.6	Gas Connection	3		
	B.7	Flexible Gas Line Installation	3		
	B.8	Restraining Device	9		
	B.9	Electrical Connection	9		
	B.10	Pre-Operation Check	9		
C. Operation					
	•	Controls and Indicators			
		Step-by-Step Lighting Procedure			
		Shutdown Procedure			
		Control Operation			
D.	Asseml	bly/Disassembly and Cleaning	.20		
E.	iroubie	shooting Guide	.38		
F.	Broil Cl	hain Tension & Link Removal	.42		
G.	Parts a	nd Locations	.43		
	G.1	Main Chamber Removable Parts	.43		
	G.2	Flex Chamber Removable Parts	.44		
		Feed End View Components			
	G.4	Main Chamber Side View Components	.46		
		Flex Chamber Side View Components			
		Model 9025 Parts List			
Н.	Wiring	Diagram	.49		
		cations			
ı.	Specific	Cauons	.ət		
1	Warranty Information 5				



A. GENERAL INFORMATION

A.1 Description

The Nieco® Model 9025 automatic broiler, utilizes dual broil chambers, high release convection burners, electric elements, a new, simplified ignition system, easy cleaning and a state-of-the-art computer control to help eliminate broiling problems and provide the operator with even greater control over the broiling environment. The 9025 is return-flow, with an automatic product return system, allowing for space savings, while delivering product to the feed end of the broiler. The 9025 is also equipped with a heated product holding unit which allows for limited product holding.

This manual provides the safety, installation and operating procedures for the Nieco Automatic Broiler Model 9025. We recommend that all information contained in this manual be read prior to installing and operating the broiler.



A.2 Warranty Information

Please read the full text of the limited Warranty in this manual.

If the unit arrives damaged, contact the carrier immediately and file a damage claim with them. Save all packing materials when filing a claim. Freight damage claims are the responsibility of the purchaser and **ARE NOT** covered under warranty.

The warranty **does not** extend to:

- Damages caused in shipment or damage as a result of improper use.
- Installation of electrical service.
- Normal maintenance as outlined in this manual.
- Malfunction resulting from improper maintenance not in accordance with the steps contained in this manual and any applicable training.
- Damage caused by abuse or careless handling outside of the normal operating procedures contained in this manual.
- Damage from moisture into electrical components.
- Damage from tampering with or removal of any safety device.

IMPORTANT!

Keep these instructions for future reference. If the unit changes ownership, be sure this manual accompanies the equipment.

IMPORTANT

The Nieco Corporation reserves the right to change specifications and product design in accordance with the general terms and conditions outlined in the BURGER KING®/Vendor agreement. Such revisions do not entitle the buyer to corresponding changes, improvements, additions or replacements for previously purchased equipment.



A.3 Service/Technical Assistance

If you experience any problems with the installation or operation of your broiler, contact your local Authorized Nieco Distributor.

Fill in the information bellow and have it handy when calling your authorized service agency for assistance. The serial number is on the broiler rating plate on the side of the unit.

Purchased from:			
Date of Purchase:			
Model No.:			
Serial No.:			

For the name of your local Authorized Nieco Distributor, please call (800) 821-2141.

Use only genuine Nieco replacement parts in your broiler. Use of replacement parts other than those supplied by Authorized Nieco Distributors and Service Agencies will void the warranty and may significantly alter the performance of your broiler. Nieco and the Burger King Corporation have worked together to create a set of standards for broiler performance, food quality and food safety. The use of non-Nieco parts is capable of affecting these criteria, and may affect broiler performance, parts longevity and food safety. Your local Authorized Nieco Distributor and Service Agent has been factory trained and has a complete supply of parts for your Nieco Automatic Broiler.

You may contact the factory direct at (707) 284-7100 if you have trouble locating your local Nieco Distributor.

A.4 Important Safety Information

Throughout this manual, you will find the following safety words and symbols that signify important safety issues with regards to operating or maintaining the equipment:

⚠ WARNING **⚠**

GENERAL WARNING. Indicates information important to the proper operation of the equipment. Failure to observe may result in damage to the equipment and/or severe bodily injury or death.

⚠ CAUTION **⚠**

GENERAL CAUTION. Indicates information important to the proper operation of the equipment. Failure to observe may result in damage to the equipment.

▲ WARNING **▲**

ELECTRICAL WARNING. Indicates information relating to possible shock hazard. Failure to observe may result in damage to the equipment and/or severe bodily injury or death.

WARNING

HOT SURFACE WARNING. Indicates information important to the handling of equipment and parts. Failure to observe caution could result in personal injury.



A.4 Important Safety Information (Cont.)

In addition to the warnings and cautions in this manual, use the following guidelines for safe operation of vour Nieco Automatic Broiler:

- Read and follow all instructions before using this equipment.
- Install or locate broiler only for its intended use as described in this manual.
- Do not operate this equipment if it has a damaged cord or plug, if it is not working properly or if it has been otherwise damaged.
- This equipment should only be serviced by authorized personnel. Contact your local Nieco Distributor for adjustment or repair.
- Use only genuine Nieco replacement parts for your broiler. Failure to do so will void the warranty
 and may significantly alter the performance of your broiler. Nieco and the Burger King
 Corporation have worked together to create a set of standards for broiler performance, food quality
 and food safety. The use of non-Nieco parts is capable of affecting these criteria, and may affect
 broiler performance, parts longevity and food safety.

The following warnings and cautions appear throughout the manual and should be carefully observed:

- Turn the broiler off, close the main gas valve, and disconnect the plug before performing any service, maintenance or cleaning on the broiler.
- Always allow the broiler to fully cool before performing any service, maintenance or cleaning. Failure to wait for the broiler to cool fully may result in personal injury.
- The procedures in this manual may include reference to the use of chemical products. The Nieco Corporation does not endorse the use of any particular cleaning/degreasing agent. Use only those chemicals that are approved for use in the BURGER KING® SYSTEM.
- The broiler should be grounded according to local electrical codes to prevent the
 possibility of electrical shock. It requires a grounded receptacle with separate electrical
 lines, protected by fuses or circuit breakers of the proper rating.
- All electrical connections must be in accordance with local electrical codes and any other applicable codes.
- The use of adequate ventilation (as rated in this manual) with this broiler is mandatory.
 Failure to adequately ventilate this unit and provide safe operating distances (as specified in this manual) is a fire safety hazard. Follow the instructions for emergency broiler shutdown in the event of an emergency.
- No attempt should be made to operate this appliance in the event of a power failure.

WARNING ELECTRICAL SHOCK HAZARD. FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR DEATH:

- Electrical ground is required on this appliance.
- Check with a qualified electrician if you are in doubt as to whether the appliance is properly grounded.
- Do not use water on or near the control box located on the underside of the broiler for risk of serious injury or death due to electrical shock.

WARNING, HIGH TEMPERATURES WITH HOT SURFACES. FAILURE TO FOLLOW THESE PROCEDURES COULD RESULT IN SERIOUS INJURY:

 Do not attempt to clean, disassemble or perform maintenance on this broiler until it is fully cooled as per the instructions contained in this manual.



B. INSTALLATION

B.1 Pre-Installation

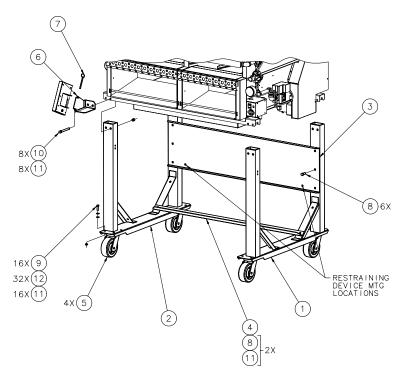
Uncrate the broiler and inspect for shipping damage. Remove the tape securing the machine parts, and install the parts in their proper location. Refer to the Parts and Location section of this manual. If there are obvious or concealed damages to any part of the broiler, please contact your freight carrier. The factory warranty does not cover freight damage.

B.2 Mounting

Follow the mounting instructions if this function is not performed by the installer.

B.3 Leveling

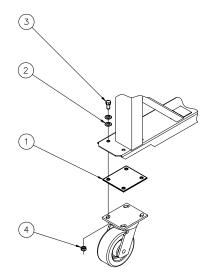
The grease drain system is based on a gravity-flow design. Therefore, it is extremely important to level the broiler during installation. Use levelling shims (P/N 11936).



ITEM	P/N	QTY	DESCRIPTION	
1	11939	1	Left Stand Leg Assembly	
2	11940	1	Right Stand Leg Assembly	
3	10803	1	Shear Plate	
4	10410	1	Freezer Stop	
5	95099	4	Caster	
6	11881	1	Control Pad Bracket	
7	11089	1	Quick Release Pin	
8	10476	8	3/8X7/8" Bolt	
9	11888	16	3/8X1 1/4" Bolt	
10	10475	8	3/8X2" Bolt	
11	10477	16	3/8" Lock Nut	
12	5599	32	3/8" Washer	



Prior to mating stand to broiler, and with stand in operating location, verify that stand is level within 1/8". If not, shim as required.



SHIM INSTALLATION:

- 1. Prior to mating stand to broiler and with stand in operating position, verify that stand is level within an 1/8" inch.
- 2. If shimming is required, determine which caster(s) should be shimmed.
- 3. Elevate side of stand to be shimmed off of floor.
- 4. Remove caster(s) to be shimmed.
- 5. When installing shims, remove existing hardware, discard washers (ITEM 2), and reuse nuts and bolts.
- 6. After adding shim(s) and securing caster(s), lower broiler.
- 7. Check to verify that broiler is now level.

ITEM	P/N	QTY	DESCRIPTION
1	11936	AR	Stand Shim
2	5599	REF	3/8" Washer
3	11888	REF	3/8X1 1/4" Bolt
4	10477	RFF	3/8" Locknut



B.4 Hood Requirements

This appliance must be installed under a ventilation hood of adequate size and the following minimum capacity:

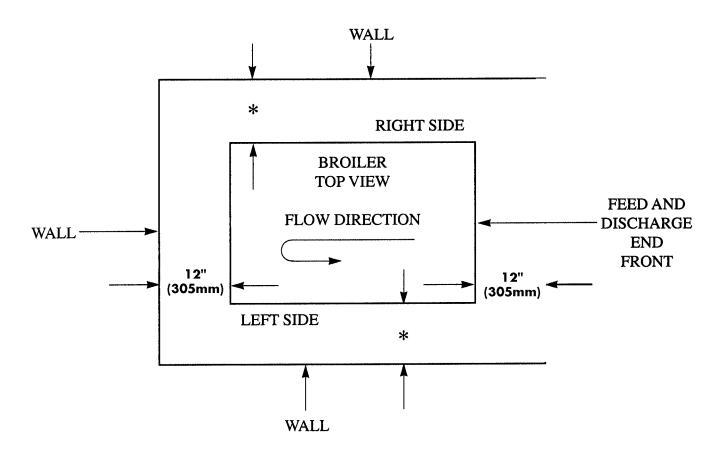
Model SCFM 9025 1000

Do not obstruct the flow of combustion and ventilation air. An adequate air supply must be available for safe and proper operation.

B.5 Clearance

For proper installation the minimum clearance from combustible and non-combustible construction must be 305 mm (12") from the back and 305 mm (12") from the front of the machine. Keep appliance area free from combustibles.

To facilitate disassembly and service of the unit a minimum of 610 mm (24") should be allowed on the control panel (feed end) of the broiler, as well as in front and back of the broiler.



* 12" (305mm) Minimum, preferably 610 mm (24") or more for service. Location clearances are from walls of broiler height.



B.6 Gas Connection- 1" N.P.T. (Nieco P/N 11966; 1" Flexible Gas Line)

At rated input the gas supply should deliver a minimum pressure of at least 15 mbar (5" water column) at the broiler connection for natural gas. Incoming gas supply pressure must not exceed 50 mbar (14" water column).

Note: The installation of this appliance must conform with local codes, or in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1, Natural Gas Installation Code, CAN/CGA-B149.1 including:

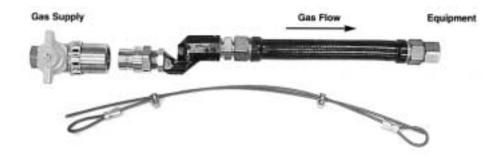
- 1. The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psi (3.45 kPa).
- 2. The appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psi (3.45 kPa).

By public initiative, the State of California has adopted legislation (Proposition 65) which requires manufacturers of many types of products, including gas appliances, to warn consumers of their products that contain chemicals or produce substances listed by the State of California to either cause cancer, birth defects or other reproductive harm.

⚠ WARNING **⚠**

If not installed, operated and maintained in accordance with the manufacturers instructions, this product could expose you to substances in fuel or from fuel combustion which can cause cancer, birth defects or other reproductive harm.

P/N 11966 - 1" Flexible Gas Line with Strain Relief Cable



9025 Equipment Side Gas Connection

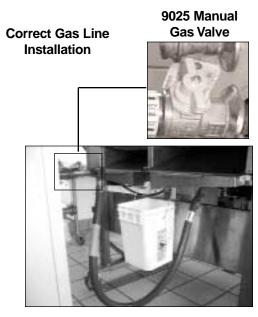


B.7 Installing Gas Appliance Connectors and Flexible Gas Lines Correctly

For safety in the kitchen area, and to insure maximum service life, it is vitally important to correctly install connectors. The connector shall comply with the Standard for Connectors for Moveable Gas Appliances, ANSI Z21.69 or CAN/CGA-6.16 and a quick disconnect device that complies with the Standard for Quick-Disconnect Devices for use with gas fuel, ANSI Z21.41 or CAN1-6.9

In order to avoid sharp kinks or excessive bends that could have a damaging effect on the connector, it may be necessary to attach pipe elbows in order to bring the connector into its proper plane. For easy movement of the appliance, the connector should be installed with a "lazy" loop for minimum tension.

Note: Gas appliances should be disconnected prior to maximum movement. (Minimal movement is possible to connect hose.)





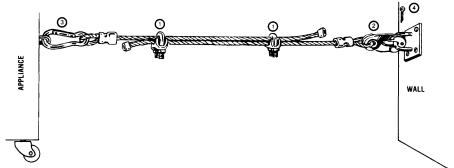
B.8 Restraining Device Installation and Use

This high strength restrainer is to be used with all moveable (castered) appliances. It fully complies with American Gas Association requirements. References: Z21.69, Z83.11, and Z21.41 with current revisions. Installation is quick and positive. In Canada, device is in accordance with CAN 1-6.9-M70 Quick Disconnect Devices for use with gas fuel, and CAN 1-6.10-88 metal connectors for gas appliances.

Correct length for any appliance is simply a matter of loosening two adjuster clips (1) and re-tightening. (3" to 6" shorter than appliance connector is desired length.)

Restrainer is made of heavy duty steel cable, with a strong scissor hood (2) at one end, and an equally strong spring hook (3) at the other. Cotter pin (4) is supplied to secure the installation. For proper attachment to the broiler, use the supplied hardware to attach the device to the holes in the shear plate of the broiler stand.

NOTE: If disconnection of the restraint is necessary, reconnect the restraint after the appliance has been returned to its originally installed position.



IMPORTANT: This Restraining Device should be ordered with every connector for Movable appliances.

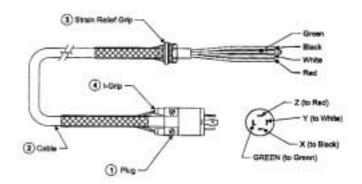
B.9 Electrical Connection

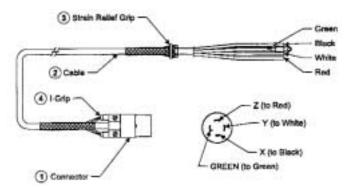
Power requirements are stated on the unit nameplate and must be connected accordingly. This appliance, when installed must be electrically grounded in accordance with local codes, or in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70, or the Canadian Electrical Code, CSA C22.2, as applicable. Before starting broiler, tighten all electrical connections in control box. An electrical wiring diagram can be found inside the control box.

Note: Disconnect power before servicing.

P/N 11960 - 6ft Male Power Cord 30A 3Ø 250V 3-Pole 4-Wire Grounding NEMA L15-30P

P/N 11961 - 3ft Female Power Cord 30A 250V 3-Pole 4-Wire Grounding - NEMA L15-30P





NOTE: If overhead power supply connection is not used; use power supply receptacle attached to the steamer table. The power supply receptacle will be supplied by your KES.

B.10 Pre-Operation Check

Be sure that all parts are installed in the proper location:

- ☐ Ventilation is turned on
- ☐ Broiler is plugged in
- ☐ Gas line is connected



C. OPERATION

C.1 Controls and Indicators

ON THE FLEX CHAMBER SIDE

Red Pilot Button (P/N 2123)

Gas Pressure Gauge (P/N 2001)

Main On/Off Switch (P/N 10503)

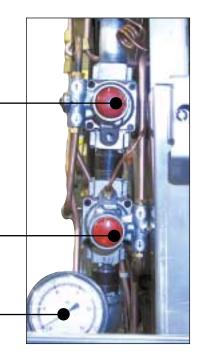
Ignitor Reset Button (P/N 11025)

ON THE MAIN CHAMBER SIDE

Upper Red Pilot Button (P/N 2123) —

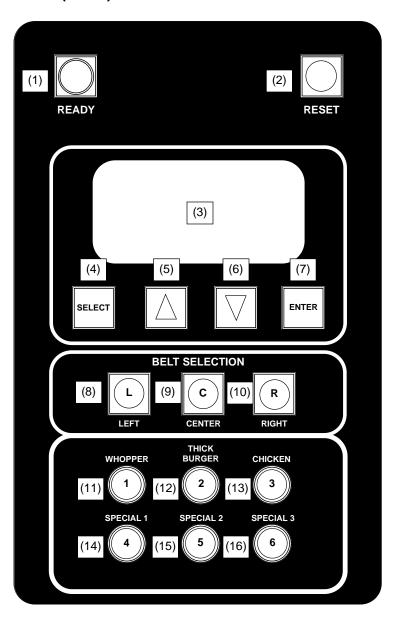
Lower Red Pilot Button (P/N 2123) —

Gas Pressure Gauge (P/N 2001) —





C.1 Controls and Indicators (Cont.)



- (1) **READY** Green indicator light when temperature set point is reached.
- RESET Clears broil chain error and silences warning alarm.
- (3) LCD SCREEN
- (4) SELECT Used to access different menus, screens, and to move the cursor arrow. Used to enter program mode.
- (5) **SCROLL UP** Raises Time/Temperature settings.
- (6) **SCROLL DOWN** Lowers Time/Temperature settings.
- (7) ENTER Yes or Enter. Used to display different menu screens.
- (8) **LEFT** Left (MAIN CHAMBER) Broil Belt information will be displayed on LCD screen if pushed.

- (9) **CENTER** Center (FLEX) Broil Belt information will be displayed on LCD screen if pushed.
- (10) RIGHT Right (FLEX) Broil Belt information will be displayed on LCD screen if pushed.
- (11) **WHOPPER®** WHOPPER® preset times will be displayed on LCD screen if pushed.
- (12) THICK BURGER Thick burger preset time will be displayed on LCD screen if pushed.
- (13) CHICKEN Chicken preset time.
- (14) SPECIAL 1 For future use.
- (15) SPECIAL 2 For future use.
- (16) SPECIAL 3 For future use.



C.2 Lighting Procedures

PRE-LIGHTING PREPARATION

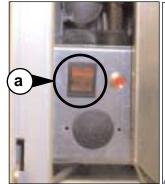
- Broiler is centered under hood and plugged in
- 2. Gas valve is open when handle is in line (parallel to) the pipe
- 3. Turn ventilation system on

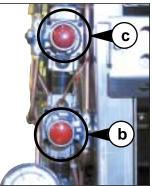
⚠ WARNING **⚠**

THE VENTILATION SYSTEM MUST BE ON AT ALL TIMES DURING BROILER OPERATION. OPERATING BROILER WITHOUT PROPER VENTILATION IS A SEVERE FIRE HAZARD.

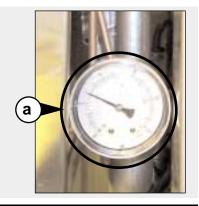
MAIN CHAMBER IGNITION

Turn the MAIN POWER SWITCH (a) on. Starting with the MAIN CHAMBER RED PILOT BUTTONS, press and hold the LOWER BUTTON FIRST (b) for 30 seconds after the pilot has lit. Then press the UPPER PILOT BUTTON (c) for 30 seconds after the pilot has lit.





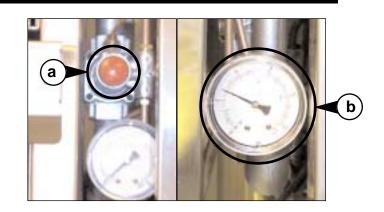
After releasing red pilot buttons; check **GAS PRES-SURE GAUGE (a)** reading. Gauge should read 4". If not, follow troubleshooting tips in section E of this manual. Verify that main chamber burners - upper and lower - have lit.



FLEX CHAMBER IGNITION

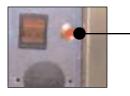
3

Move to the FLEX CHAMBER RED PILOT BUTTON (a), push and hold for 30 seconds after the pilot has lit. Release, and verify that the burners have lit, and that the GAS PRESSURE GAUGE (b) reads 4".





PILOTS MUST BE LIT WITHIN 5 MINUTES; IF YOU EXCEED 5 MINUTES, PRESS THE RESET BUTTON NEXT TO THE ON/OFF SWITCH AND REPEAT IGNITION PROCEDURES. IF REIGNITION FAILS, COMPLETELY SHUT OFF THE BROILER, WAIT 5 MINUTES AND REPEAT THE IGNITION PROCEDURES.

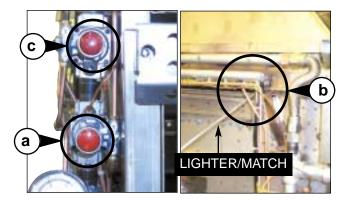


Reset Button

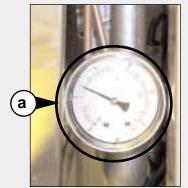


MANUAL IGNITION - MAIN CHAMBER

Press and hold the **LOWER PILOT BUTTON** (a). Use match or long-stemmed lighter to light **PILOT TUBES** (b). Light the pilot closest to the feed end of the broiler. After pilot has lit, hold pilot button for 30 seconds, release and verify that lower burners have lit. Repeat for the **UPPER PILOT BUTTON** (c).

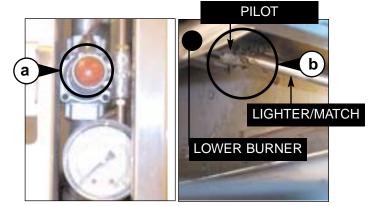


After releasing red pilot buttons; check GAS
PRESSURE GAUGE (a) reading. Gauge should read
4". If not, follow troubleshooting tips in section E of
this manual. Verify that main chamber burners upper and lower - have lit.

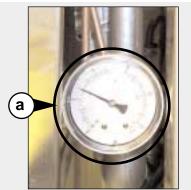


MANUAL IGNITION - FLEX CHAMBER

Remove the **UPPER GREASE PAN** (not pictured - see DISASSEMBLY). Press and hold the **PILOT BUTTON** (a) and place the long stemmed lighter or match on the **PILOT BURNER** (b) located on the outboard (manifold) side of the flex chamber. After pilot is lit, hold pilot button for 30 seconds and release.

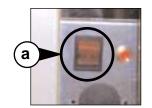


After releasing pilot button, verify that LOWER BURNERS have lit and that the GAS PRESSURE GAUGE reads 4" (a).



PLANNED SHUTDOWN

- Allow the broiler to run free of any product for 10 minutes.
 This will burn the chain clean.
- 2. Turn off the Main Power Switch (a).



3. Wait for 30 minutes for the broiler to cool.

⚠ WARNING **⚠**

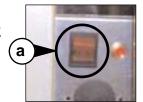
Always leave the ventilation hood on while the broiler is cooling. Failure to do so is both a fire risk and could result in damage to the broiler.



Allow the broiler to fully cool BEFORE beginning disassembly and cleaning. Failure to do so could result in serious injury.

EMERGENCY SHUTDOWN

1. Turn off the MAIN POWER SWITCH (a)



2. Close the MAIN
GAS VALVE (b)
Valve is closed
when it is perpendicular to pipe



Your Nieco Automatic Broiler is designed to automatically stop gas flow to the broiler in the event of power failure, gas pressure loss or any other related incident. No attempt to operate this appliance should be made in the event of a power failure.

⚠ CAUTION **⚠**

In a prominent location, post instructions to be followed in the event the user smells gas. This information shall be obtained by consulting your local gas supplier.

⚠ CAUTION ⚠

FOR YOUR SAFETY: Do not store or use gasoline or other flammable vapors or liquids in the vicinity of this or any other appliance.

⚠ CAUTION ⚠

FOR YOUR SAFETY: In the event of a prolonged power failure, no attempt should be made to operate this appliance.



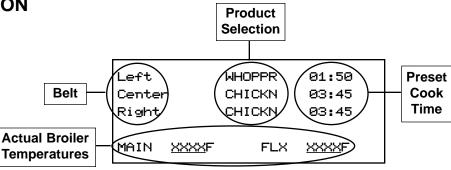
C.4 Control Operation

IMPORTANT: THIS BROILER IS SHIPPED WITH FACTORY PRESETS THAT MUST BE CHANGED.

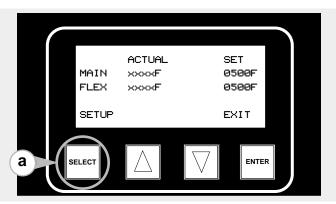
If this is the initial start-up for your broiler, ALL control settings must be made according to BURGER KING® specifications. Follow the steps outlined for calibration, changing preset times and setting the flex chamber element heat settings to properly set up this broiler.

INITIAL SET-UP AND CALIBRATION

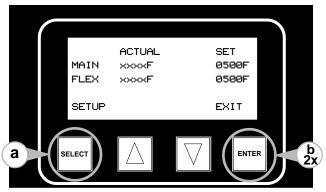
Turn Main Power Switch on.
Copyright screen will illuminate for several seconds showing software revision number (2.15 at time of printing) followed by the run screen Broiler should be in HIGH GAS (4" W.C.). Light the broiler following the lighting procedures.



Calibrate by setting the main and flex temperatures to 500°F. Push and hold the **SELECT (a)** button for 5 seconds. LCD will show TEMP SET function.

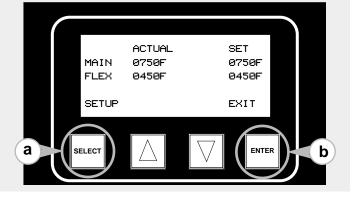


Use the **SELECT (a)** button to move the cursor. Use the up or down arrows to change the values. When both main and flex "set" temperatures read 500°F, press **ENTER (b)** twice to save.



warm up, press the **SELECT (a)** button to move the cursor to the set temperature. Use the up and down arrows to change the value so the set temperature is 20°F **HIGHER** than the actual temperature. Use the **ENTER (b)** button to save. NOTE: THIS IS ONLY AN EXAMPLE SHOWN; YOUR READ OUT WILL BE DIFFERENT!

Allow the broiler 30 minutes to warm up. After



NOTE: If your broiler is equipped with a catalyst; be sure to verify that your broiler enters high gas mode (4" Gas pressure reading on gauge) when under load. If not, follow these procedures to raise the set point of the broiler by 10°F; then recheck.

NORMAL RUN (OPERATING) SCREENS

The readout display actually has 8 lines, however only 4 are visible at a time. The first visible set shows cook times for the upper broil chains. The second set shows the return belt time and the time and date stamp. To switch between the sets press the SELECT button.

1

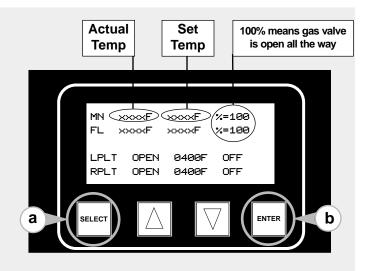
RUN SCREEN 1
Normal Run Screen
Press the SELECT (a) or ENTER (b) button until
the screen returns to the normal run screen. The
normal run screen shows cook times and broiler
temperatures.



2

RUN SCREEN 2 From the NORMAL RUN Screen Press ENTER to get to Screen 2

Run screen 2 compares the actual chamber versus the programmed set points. This display is primarily used for service. To exit this screen and return to the normal operating screen press **SELECT (a)** or **ENTER (b)**.



3

RUN SCREEN 3 From the NORMAL RUN Screen press SELECT to get to Run Screen 3

Run screen 3 is diagnostic for service. To exit this screen and return to the normal operating screen press **SELECT (a)** or **ENTER (b)**.



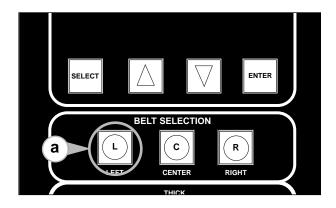


CHANGING PRESET COOK TIMES

The 9025 control allows you to program multiple belt speeds for each individual belt. Follow these steps to change the preset broil times for each product/belt.

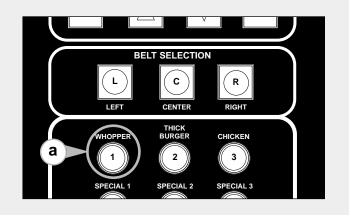
1

From the normal operating screen - press and hold for 5 seconds the BELT you wish to change. For example press **LEFT (a).**Belt selection choices are:
LEFT (Main Chamber), CENTER and RIGHT (both Flex Chamber).



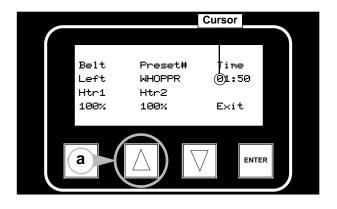
2

Then press the PRODUCT button you wish to change. For example select **WHOPPER®** (a). Product selection choices are: WHOPPER®, THICK BURGER, CHICKEN, SPECIAL 1, SPECIAL 2, SPECIAL 3.



3

After step 1, the screen will change to the edit mode with the cursor flashing on the preset time. Use the **UP** and **DOWN (a)** ARROWS to adjust the broil time. While in edit mode, any of the belts and product preset times can be changed. Simply press the BELT/PRODUCT you wish to change and use the UP/DOWN arrows to change the times.



4

When you are finished making changes, press the **ENTER (a)** button TWICE (2x) to save the changes and return to the normal operating screen.

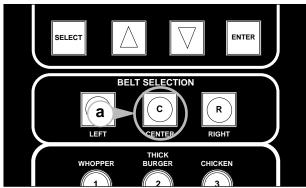


CHANGING FLEX CHAMBER ELEMENT POWER SETTINGS

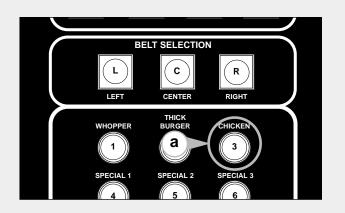
The flex chamber on the 9025 uses electric elements on the top and gas burners on the bottom. The elements are divided into 2 cook zones per belt. These are defined as HEATER 1 (Htr 1) and HEATER 2 (Htr 2). Heater 1 is the front or feed end elements; Heater 2 is the back or discharge end elements. These zones can be independently controlled. The heaters are set by percent of power ranging from 0% (OFF), to 100% (full power). NOTE: All elements are factory preset to 100% power.

1

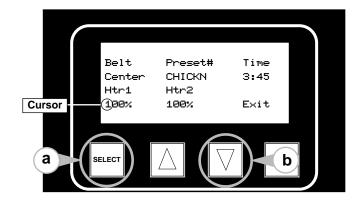
Press and hold for 5 seconds the belt you wish to change. The Flex Chamber belts are controlled by the CENTER and RIGHT belt buttons. For example, press and hold the **CENTER (a)** button for 5 seconds.



Then press the product button you wish to change the power settings for. For example, press the **CHICKEN** (a) button.



After step 1, the screen will change to the edit mode with the cursor flashing on the preset time. Press the **SELECT** (a) button to move the cursor to Htr1 (Heater 1). Use the **UP and DOWN** (b) arrows to change the percentage of power for Htr1 (0%=OFF; 100%=FULL). When Heater 1 is set, press the SELECT button to move the cursor to Heater 2. Repeat to change Heater 2 power setting.

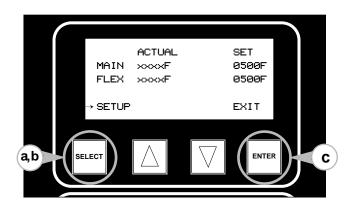


When you are finished making changes, press the ENTER (a) button TWICE (2x) to save the changes and return to the normal operating screen.

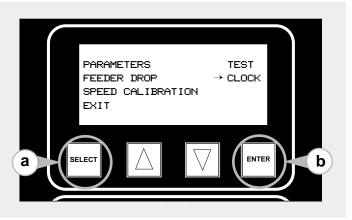


SETTING THE DATE AND TIME

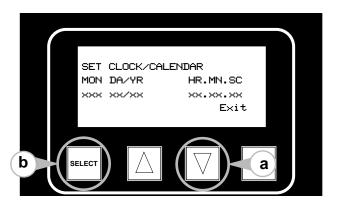
Press and hold **SELECT (a)** for 5 seconds to get to the TEMP SET screen. Press the **SELECT (b)** button to move the cursor to point at SETUP, then press the **ENTER (c)** button.



Press the SELECT (a) button to move the arrow to the CLOCK selection. Press the ENTER (b) button.



Use the **UP/DOWN** (a) arrows to set the date. Press the **SELECT** (b) button to move the cursor from month/day to time. Set the time using the UP & DOWN arrows.



When finished making changes, press **ENTER (a)** to save your changes and return to the normal run screen.



D. CLEANING AND DISASSEMBLY

Turn broiler off and close the main gas valve. Disconnect the power supply to the broiler before cleaning or servicing. If this broiler is connected using a restraint, and disconnection of the restraint is necessary for cleaning or moving the broiler, the restraint must be reconnected after the broiler has been returned to its originally installed position. Allow to cool for 30 minutes prior to cleaning/disassembly. Leave the ventilation system on during cooling. Use only approved cleaning, degreasing and sanitizing solutions.

⚠ WARNING ⚠

LEAVE THE VENTILATION HOOD ON DURING COOLING. FAILURE TO DO SO COULD POSE A FIRE SAFETY HAZARD.

⚠ CAUTION ⚠

Follow the Disassembly and Reassembly steps to ensure proper operation of the broiler. Failure to do so may result in operational problems.

📈 WARNING 📈

BROILER PARTS ARE HOT. DO NOT ATTEMPT TO DISASSEMBLE THE BROILER UNTIL IT IS FULLY **COOL. FAILURE TO FOLLOW THIS INSTRUCTION MAY RESULT IN** SEVERE INJURY.

ALL PARTS ARE CLEANED ON A DAILY BASIS UNLESS OTHERWISE NOTED

Follow the steps for proper disassembly. Reverse the order for reassembly.



Loader Cover - P/N 11386

Feed End

Disassemble



Slide towards yourself



Clean

- a. Wash
- b. Scrub
- c. Rinse
- d. Sanitize

Every 4 Hours

Slide on; the fit is very tight



Reassemble



Loader Base - P/N 11211

Disassemble



Pull release pin; lift right side and pull



Clean

- a. Wash
- b. Scrub
- c. Rinse
- d. Sanitize

Every 4 Hours

Hold base by loader bar; pull

Feed End

release pin; tilt inside side up

Insert outer side first; push loader bar to move base until pin engages







Loader Housing - P/N 11389

Feed End

Disassemble



Lift and pull



Clean

- a. Wash
- b. Scrub
- c. Rinse
- d. Sanitize

Hang housing on the brackets



Reassemble



Flex Slide - P/N 11755





Lift and pull



Clean

- a. Wash
- b. Scrub
- c. Rinse
- d. Sanitize





Hang slide on the brackets

Feed End







Front Hood Shield (NOT A NIECO PART)

Feed End

Disassemble



Lift, pull off



If hinged shield; swing shield up

Secure in place with rod to hood frame

Clean

Wipe down front and back surface

Lift up into exhaust hood; set down to lock in place

If hinged shield -Release rod from hood frame Close hood shield Lock lever

Reassemble



Main Chamber Ash Scraper Tray P/N 11014

Feed End

Disassemble



Pull out



Clean

- a. Wash
- b. Scrub
- c. Rinse
- d. Sanitize

Push in place and secure over channel





Upper Grease Pans (2) - MAIN P/N 10737/FLEX P/N 10452

Feed End

Disassemble

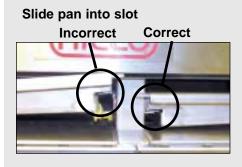


Slide pan out



Clean

- a. Wash
- b. Degrease
- c. Scrub
- d. Rinse
- e. Sanitize



Reassemble



Warming Platens (2)





Clean with sanitized water after broiler cools but before grease becomes solid



Clean

a. Clean with sanitized water

Do not scrub Do not use degreaser



Feed End Grease Troughs (2) MAIN P/N 11540/FLEX P/N 11542

Feed End

Disassemble



Lift up and out



Clean

- a. Wash
- b. Degrease
- c. Scrub
- d. Rinse
- e. Sanitize

Hook in the slot



Reassemble



Feed End Ash Scraper Blades (2) - MAIN P/N 11016/FLEX P/N 11015

Feed End

Disassemble



Lift off pins and pull out



Clean

- a. Wash
- b. Degrease
- c. Scrub
- d. Rinse
- e. Sanitize



Replace back under top chains; put notches on pins



X Make sure part swings freely



Awnings (2) - MAIN P/N 11837/FLEX P/N 11830

Discharge End

Disassemble



Tilt to unhook; lift pins off brackets; pull out



Clean

- a. Wash
- b. Scrub (on inside only)
- c. Rinse
- d. Sanitize

Slide up and under frame; place pins in brackets



Reassemble



Side Panels (2) - P/N 10747

Sides

Disassemble



Lift off



Clean

a. Wipe clean b. No Scrub

Hook over corner supports



Return Slides (2) - MAIN P/N 11495 (CENTER DIVIDER P/N 11493)/FLEX P/N 11497

Discharge End

Disassemble



Pull up and out



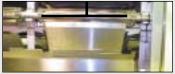
Clean

- a. Wash
- b. Degrease
- c. Scrub
- d. Rinse
- e. Sanitize

Place bracket over broiler crossbar; set down

Make sure slide is on correct chamber

Incorrect



Position center guide on pan



Reassemble



Stripper Blades (2) - MAIN P/N 10857/FLEX P/N 10856

Discharge End

Disassemble



Tilt away from chain; lift off brackets



Clean

- a. Wash
- b. Degrease
- c. Scrub
- d. Rinse
- e. Sanitize

Put blade notches on supports on broiler

Make sure blade is not hooked on upper grease pan or burners and that it swings freely

Incorrect







Chain Shafts (3)

Discharge End



Clean top chain shafts with multipurpose tool



Clean

a.Scrape shafts

Multipurpose tool is stored behind the side panel

Reassemble

Return Chains (2) - MAIN P/N 11412/FLEX P/N 11555

Discharge End

Disassemble



Pull and hold spring loaded pin



Lift front; pull chain assembly toward you



Clean

- a. Wash
- b. Scrub
- c. Rinse
- d. Sanitize

Pull and hold spring loaded pin

Slide chain assembly toward front; line up coupling with engagement pin; rotate return chain until fully engaged





Lower Grease Trays (2) - MAIN P/N 11553/FLEX P/N 11551

Discharge End

Disassemble



Lift from grease trough slot; slide out



Clean

- a. Wash
- b. Scrub
- c. Rinse
- d. Sanitize

Slide into place; fit bracket into slot

Reassemble



Grease Troughs (2) - MAIN P/N 10943/FLEX P/N 10943

Discharge End

Disassemble



Lift front of lower grease tray, then lift grease trough to remove



Clean

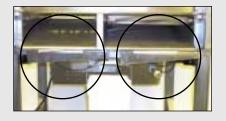
- a. Wash
- b. Degrease
- c. Scrub
- d. Rinse
- e. Sanitize

Hook grease trough into slot

Make sure both are discharging into grease bucket

Incorrect

Correct







Grease Bucket - P/N 9089

Discharge End

Disassemble



Lift off



Clean

- a. Wash
- b. Degrease
- c. Scrub
- d. Rinse
- e. Sanitize

If used with liner -Remove and discard used liner; put in new liner Hang bucket by handle over hook on broiler

Reassemble



Discharge Ash Scrapers (2) - MAIN P/N 11006/FLEX P/N 11004

Discharge End

Disassemble



Rotate top out and pull



Clean

- a. Wash
- b. Degrease
- c. Scrub
- d. Rinse
- e. Sanitize



Rest scraper on the support rod; gently push toward feed end until scraper clicks into place. Lift broil chain if needed

If assembled backwards, the scraper will fall out





Lower Burners (6) - P/N 10532

Discharge End

Disassemble



Twist counterclockwise and pull



Clean

Brush with dry brush - NO WATER





Install burner with round end facing feed end with holes up

Push and turn clockwise to make sure burner is secure and holes are facing up



Reassemble



Lower Burner Shields (6) - P/N 10036

Disassemble



Lift out of slots; push back; lower to clear bars; pull out



Clean

- a. Wash
- b. Scrub
- c. Rinse
- d. Sanitize



Rotate 90°; slide into broiler

Discharge End



Rotate back 90° into position







Catalyst (if available) - NOT A NIECO PART

Тор

Disassemble



Grasp handle and lift up to remove from shroud collar



Rotate



Clean



Rinse with water only; air dry

Do not use chemicals on a catalyst

Lift up, rotate 1/2 turn and fit

Handle should be at top

over shroud

CAUTION: EXTREMELY HOT

Reassemble



Perforated Cap (2 if no catalyst) - P/N 11863

Top

Disassemble



Lift from shroud collar



Clean

- a. Wash
- b. Scrub
- c. Rinse
- d. Sanitize



Fit into shroud collar



Check that the panel with the holes is at the top





Shrouds (2) - MAIN P/N 11706/FLEX P/N 11704

Тор

Disassemble



Lift from broiler



Clean

- a. Wash
- b. Scrub
- c. Rinse
- d. Sanitize



Place shroud properly on broiler

Main Side (Wide Shroud) (Narrow Shroud)

Flex Side



Check that the wide shroud is on the main side and the narrow shroud is on the flex side of the broiler

Reassemble



Main Chamber Upper Burners (4) - P/N 10590

Top

Disassemble



Lift burner to dislodge; inspect for holes in screens; replace burner if necessary CAUTION: BURNERS MUST BE COOL



Clean

Brush with surface facing down

DO NOT USE WATER



Monthly

Put end with tube facing outside frame; fit hole end into place and set down

Make sure burner is engaged in support





Main Chamber Reverberators (4) - P/N 10151

Тор

Disassemble



Slide off; inspect for breaks/damage; replace if necessary



Clean

a. Wash b. Scrub c. Rinse



Slide onto upper burners

Make sure reverberator is loose

Replace when any breakage occurs in screen surface

Reassemble



Flex Chamber Element Reflectors (4) - P/N 10450

Тор

Disassemble



Lift out



Clean

a. Wash b. Scrub c. Rinse



Place reflectors over element supports

Correct



Incorrect







Orifices (10)



Clean main burner orifices with Nieco brush P/N 11731



Clean

Clean 4 upper burner orifices and 6 lower burner orifices



Pilot Burners (4)

Тор



Clean slot with a utility knife blade; clean orifices with Nieco Brush P/N 11731



Clean

Clean all pilot burners and orifices





Flame Arrestors/Chain Supports (6) - MAIN P/N 10680/FLEX P/N 10683

Sides

Disassemble



Lift and open arrestor door



Pull out each arrestor and inspect for wear



Rotate



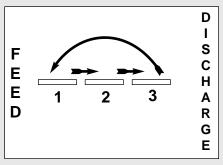
Daily rotation is essential. If discharge arrestor #3 is plugged, it will cause burning and charring of product

Clean

- a. Wash b. Scrub
- c. Rinse



Rotate 3 arrestors using multipurpose tool to push arrestors



Make sure all arrestors are fully inserted

Reassemble



Flex Chamber Heating Elements (4)

Top



Inspect for a smooth surface by touching each element lightly feeling for rough spots



Clean

No cleaning needed

Inspect



If you feel rough spots - Ask for assistance

CAUTION: Must be fully cool!



Frame and Cross Rod

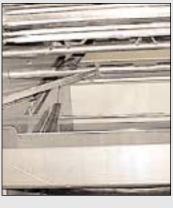
Inside



Frame

Cross Rod





Clean

Using multipurpose tool for cross rod

Wipe down frame



Temperature Probe Shield - P/N 10755

Hood

Disassemble



Lift up and out of broiler



Clean

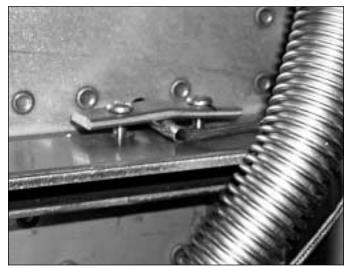
a. Degrease b. Scrub c. Rinse

Semiannually Note position for proper reassembly. Shield hangs on cross rod.

Reassemble

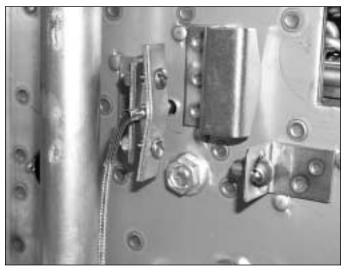
Use a cloth with rubbing alcohol to clean the temperature probes (Main and Flex) on a monthly basis.

Main Chamber



FEED END

Flex Chamber



FEED END



38

E. TROUBLESHOOTING

Always verify that the broiler is properly assembled, the hood is on, gas valve open and broiler is plugged in.

Problem	Solution
Pilots not lighting	 Check that broiler is plugged in, gas valve is open and broiler is turned on The 5-minute time limit was exceeded - press the timer reset button Manually light if it is not a timer problem Check for ignition Check for clogged pilot
Main burners not lighting	 □ Check for gas pressure, if there is pressure, use the manual lighting procedure □ If no gas pressure, call for service □ Check for proper burner installation □ Check for plugged burner orifices □ Check for plugged pilot burner
Pilot not staying lit	 □ Hold in red pilot button longer □ Call for service as red pilot button or thermocouple may need replacing
Broil chain jams	□ Procedure to correct: Push reset button on keypad once to reverse chain Push reset button a second time to run chain forward If chain jams again, check: Arrestors for proper placement (Make sure flex chamber arrestors are under both chains) For sag in the chain with arrestors in place (Chain may need a link removed) For an obstruction
Return chains not moving	 □ Verify that return chains have correct side up with drive shaft coupling lined up with engagement pin □ Check for sag in the return chain (May need to have a link removed)



Problem	Solution		
No display on computer control keypad	 If there is no text displayed on the keypad but the backlighting is on, check the connection at the keypad Call service if necessary 		
Alternative display shown on computer control keypad	☐ Depress select button on the keypad to change view		
Return chain jams	 Remove any obstruction if needed Press the black reset button located on the left (MAIN CHAMBER) side of the broiler control box (underneath). Check the motor drive chain (bicycle chain) for any obstructions or jams 		
Product not cooking to proper temperature in cookouts	 □ Use proper cookout procedures per OPS Manual (12/00) □ Adjust cook time □ Check that broiler is calibrated properly □ Check that all burners are lit □ Check that all parts are installed correctly, and that lower burner holes are facing up □ If on the flex chamber, inspect elements for rough spots or damage □ If flex chamber; check that electric elements are heating: Select WHOPPER® setting for chain (right or center) After 2 minutes observe top elements and verify that front and back elements are glowing. If glowing, elements are operating properly, check parts assembly. If not glowing, call service □ Check that broiler is properly cleaned and assembled □ Check ventilation Make sure there isn't excessive exhaust or an air vent blowing on the broiler 		



Problem	Solution		
Meat patties not returning	 □ Check that patties have not gotten stuck on the return slide _ Remove awnings to check _ Remove product from return slide if necessary _ Proper cleaning of return slide is needed daily to remove buildup which can cause patties to stick □ Check return chain to see if patties are stuck in chain _ Remove product, then check to make sure the broiler has been assembled properly (Awnings, return slide and stripper blades) 		
Temperature on display reads "OPEN"	 Inspect wire leads coming out of temperature probe Remove side panel located above thermocouple If wire is cut or exposed (insulation), call service 		
Computer control freezes or locks up (screen doesn't change when you press a button	 Reset Turn main power switch off Push and hold red pilot button on main and flex chambers to relight Turn on again; burners should relight automatically. If not, follow lighting procedure 		
Too much smoke/heat in the kitchen	 Check that hood and fan are working correctly Check that broiler is properly positioned under the hood; check all sides of broiler Check condition of catalyst (after broiler is turned off and cooled at end of night) clean if necessary Check condition and placement of grease extractors; clean daily and position properly 		
Grease on floor from discharge end	☐ Check that grease troughs are facing into the grease bucket		

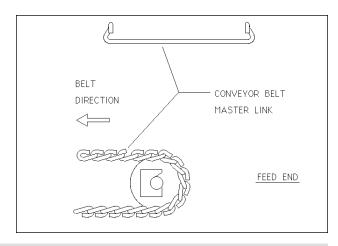


F. BROIL CHAIN REMOVAL

Maintain proper tension on the conveyor chains to prevent jamming. Major tension adjustments are made by removing a link or links from the chain. Broil belt tension should be checked monthly. To do this, allow the machine to cool, then grip the idler shaft at each end and pull on it. If the shaft and bearings move 1/2" or more, remove a link from the conveyor belt. Before beginning, notice the way the broil chain runs through the broiler. Also, notice the direction the chain knuckles face. Be sure to reassemble the same way.

1

Run chain until the master link is near the front idler shaft.



2

Remove the loader bracket and lift shaft and teflon bearings up, and slide the bearings out.



3

Unhook the master link.



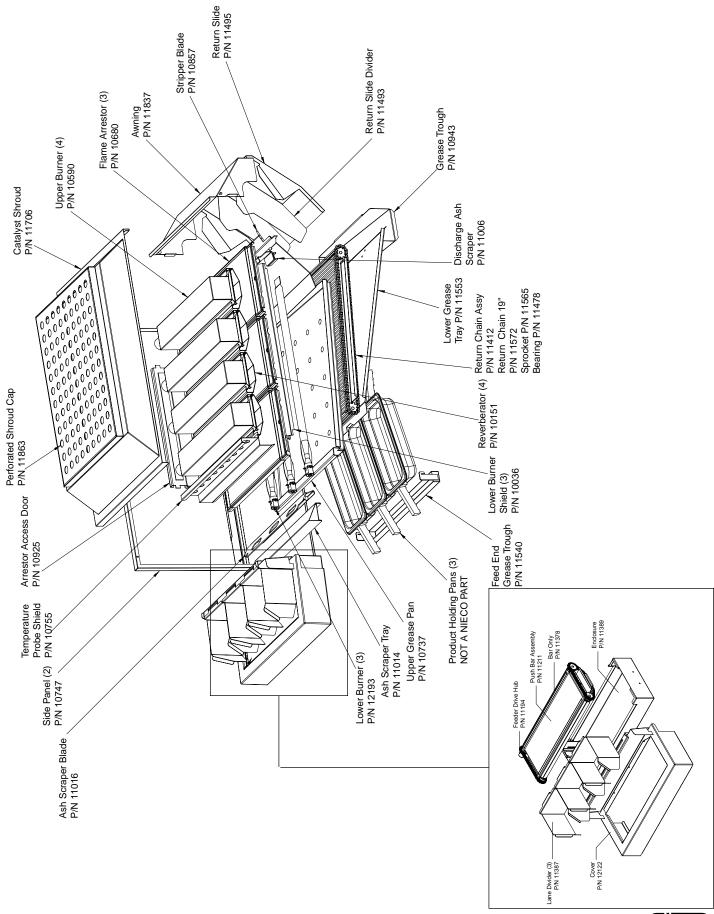
⚠ CAUTION ⚠

To ensure proper broiler operation be sure to reassemble the chain with the knuckle opening facing away from the direction of travel.

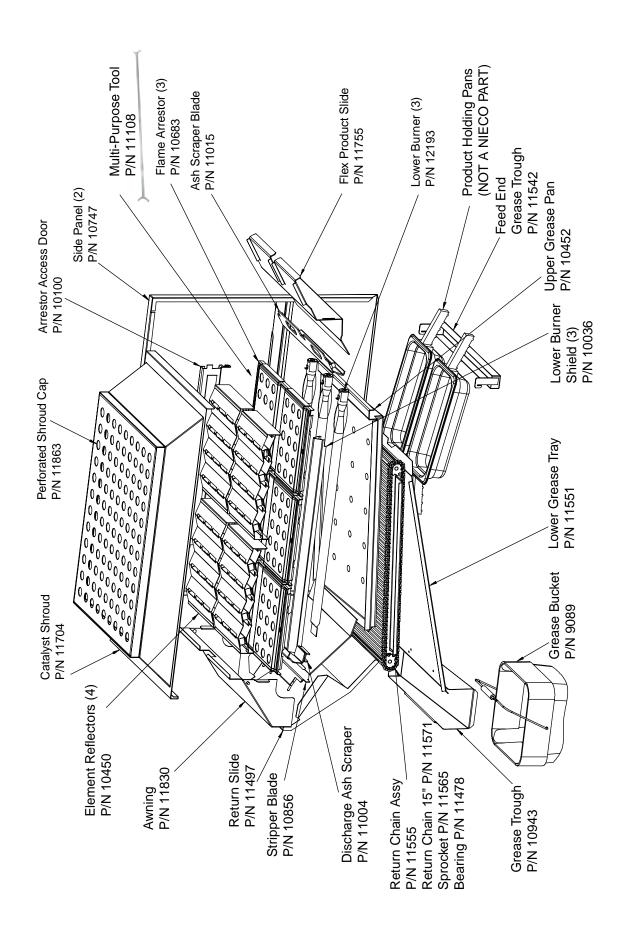


G. PARTS AND LOCATIONS

G.1 Main Chamber Removable Parts

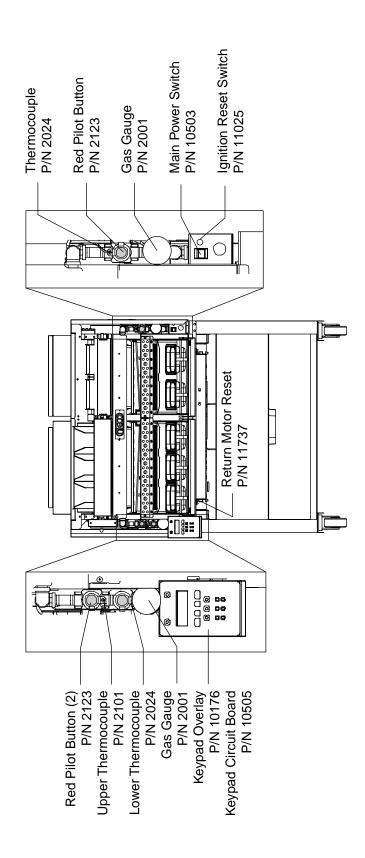


G.2 Flex Chamber Removable Parts



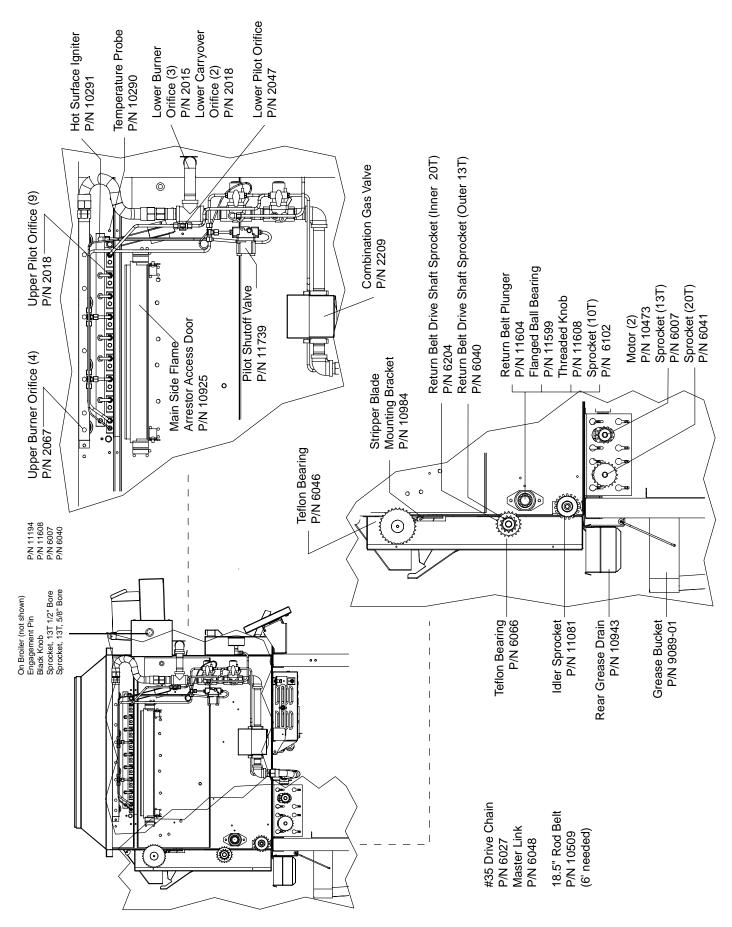


G.3 Feed End View Components



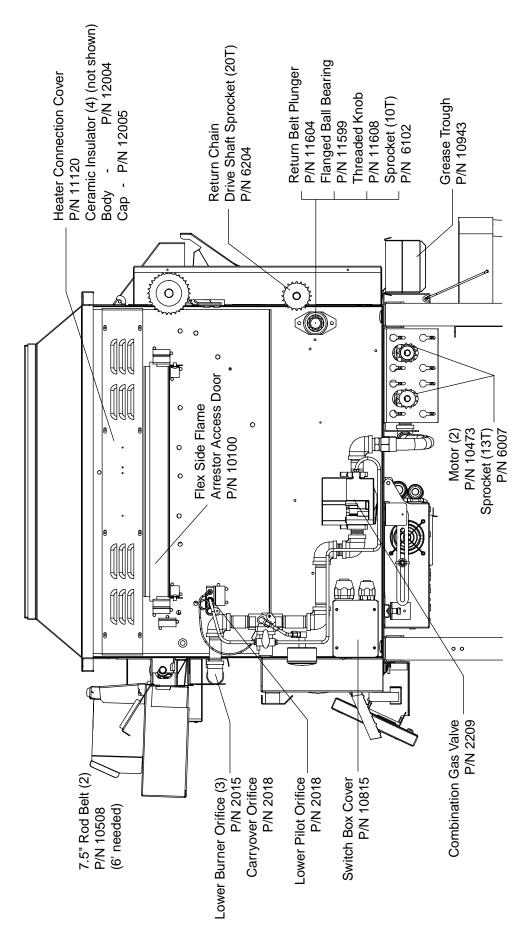


G.4 Main Chamber Side View Components





G.5 Flex Chamber Side View Components





G.6 Model 9025 Parts List

Nieco P/N Item

9025G GAS BURNER COMPONENTS

10590 Burner Box Assembly - 21"
12193 Lower Tube Burner
10036 Shield 28" Tube Burner
10151 Reverberator Perforated - 21"

9025G IGNITION & GAS SYSTEM

2067 Orifice, Upper Burner #51
2015 Orifice, Lower Burner #48
2018 Pilot Orifice (3223) Natural gas
2183 Pilot Orifice (3215) Natural gas

2024 Thermocouple 24"

2047 Pilot Orifice (5232) Natural gas 2086 Main Gas Solenoid Valve; 240V

2123 Push Button Gas Valve (Main Chamber)
2209-05 Combination Gas Valve; 24VDC (Main & Flex)
10290 Thermocouple, "J", Ungrounded 60" leads (Main)

10291 Glow Plug (24VAC)

9025G ELECTRIC ELEMENTS

10495 Element, Flex Outer 1430W, 208V 11230 Element, Flex Middle 1400W 208V

9025G DRIVE MOTOR & ELECTRICAL COMPONENTS

4067-230 Contactor 4-Pole 230V

4164 Fan axial 230VAC (control box) 4412-DC Relay (3-32VDC/240V/25A) elements

4467 Noise Filter RF 10473 Gear Motor (24VDC) 10474 Motor Brush Set

10503 Main on/off Switch w/light 16 Amp, 250VAC

10504 Circuit Board (CPU)

10505 Circuit Board (Display & Keypad complete)

10506 Circuit Board (Motor)

10527 Timer Solid State, 230VAC /120 sec (glow plug)

10529 Transformer 240VAC/24VDC 10542 Relay, 24v Input, 380/25A Output

10977 Power Supply (208-240VAC/24VDC-4.5 Amp)

11737 Circuit Breaker 1 Amp

11965 Circuit Breaker 20 Amp (for holding unit)

11025 Push Button for Ignitor 11964 Fuseholder for 25Amps

11963 Fuse 25Amps

10528 Thermocouple "J" Ungrounded 78" (Main)

9025G BROIL CHAMBER COMPONENTS

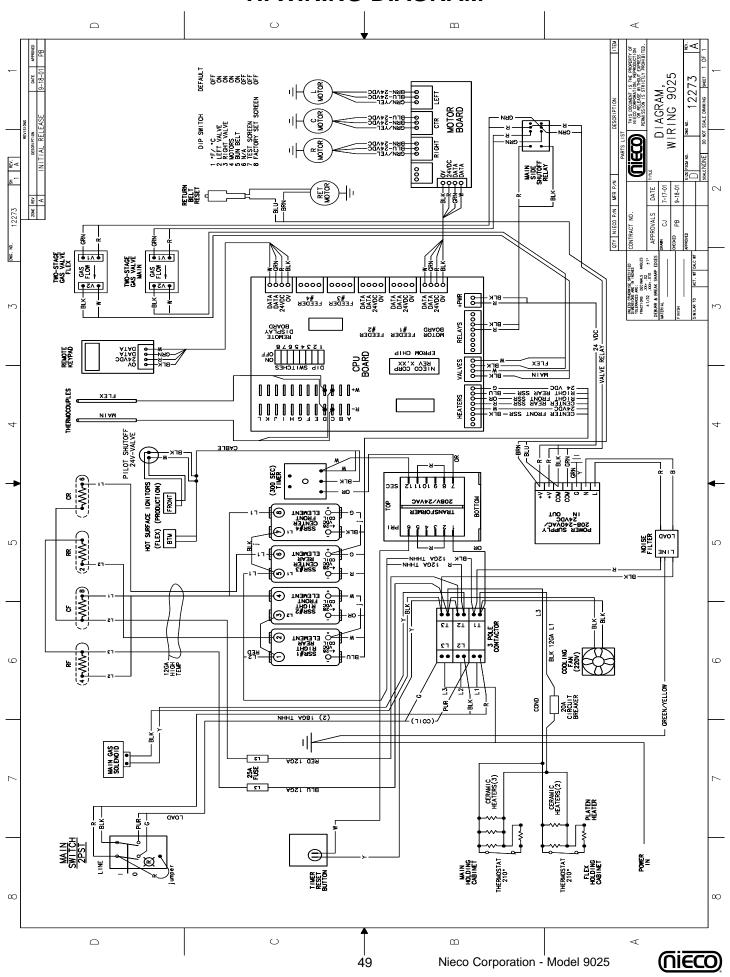
10509 Broil Chain 18-1/2, 6.146 ft, (Main Chamber) 10508 Broil Chain 7-1/2, 6.146 ft, (Flex Chamber) 10680 Flame Arrestor 18.5" (Main Chamber) 10683 Flame Arrestor 7.5" (Flex Chamber)

9025G BROILER INSTALLATION/SOLD WITH BROILER

11966 1", 5FT. Gas Connection Kit w/one Swivel 11961 Electrical Plug (female) and 3ft. Power Cord 11960 Electrical Plug (male) and 6ft. Power Cord



H. WIRING DIAGRAM



I. SPECIFICATIONS



AUTOMATIC BROILER MODEL 9025

Iтем No. __ AIA 11400

Model 9025

The Nieco Model 9025 is the state of the art broiling system designed for maximum versatility.

The 9025 features an automatic loader, computerized control, simplified ignition, dual broil chambers, automatic product return chain and heated holding section.

Included

- Stand
- Automatic Loader
- Catalyst Ready Hood

The Nieco Advantage

All Nieco equipment is backed by a world-wide sales and service network, with local parts inventories and 24-hour emergency service. Included in the price of the Nieco broiler is a visit by an authorized distributor representative to start-up the broiler, activate the warranty, and train store personnel on cleaning and operating the broiler.



Benefits of Automation

Consistency Versatility
Speed Quality
Flexibility







AUTOMATIC BROILER MODEL 9025

DIMENSIONS	INCH	MM
Length	40.00	1016
Height	67.43*	1712
Width	49.25	1251

^{*} If your broiler is equipped with a catalyst add 1.5" to the overall height. A 2" stand extension is available for improved freezer clearance.

ENERGY

Gas connection: 1" N.P.T.

Electrical Connection (specify exact voltage): 208-240V 3Ø 50/60Hz 23A

Natural Gas 3" W.C. 4.5" W.C. BTU/hr 137,000 157,000

WEIGHT - LB KG Shipping 920 414

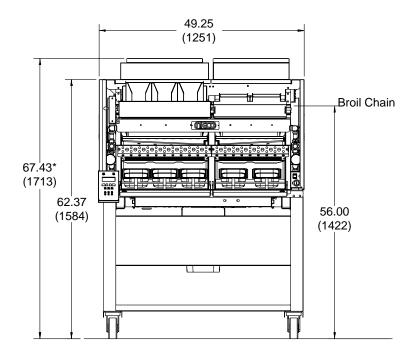
EXHAUST SCFM Typical 1050

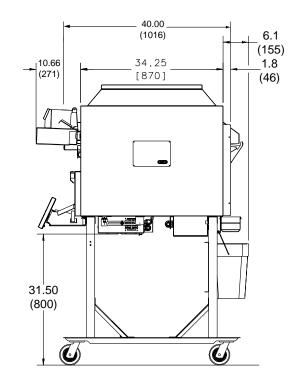
⚠ CAUTION **⚠**

All electrical connections must be in accordance with local electrical codes and any other applicable codes.

⚠ CAUTION ⚠

Do not operate the broiler at gas pressures other than those stated here. Doing so will affect the operation of your broiler.







J. WARRANTY INFORMATION

- 1. Seller guarantees new Nieco automatic infrared equipment against defective workmanship and materials for a period of twelve months from the date of installation with the exception of the inconel radiant surfaces, protective shields, reverberators, and electric broiling elements which are guaranteed for a period of six months from date of installation. The results of ordinary wear, neglect or misuse, accident or excessive deterioration from any cause are not considered defects. Seller's liability for defective parts is f.o.b. the factory where originally manufactured.
- We guarantee the correct mechanical operation of the equipment at time of installation, however, we make no warranty expressed or implied of cooking effect or of exact capacity as subjective judgements and product variations will alter evaluation of such performance.
- 3. Our warranty includes field labor for the replacement of guaranteed parts by an authorized Nieco Distributor for a period of 90 days after start-up. This labor service warranty is provided in all areas covered by an Authorized Nieco Distributor.
- 4. We specifically do not warrant any production or product losses or other consequential damages which may occur as a result of equipment malfunction or failure, whether the cause of malfunction or failure is otherwise covered by our warranty or not.
- 5. Seller makes no other representations or warranties of any kind, express or implied, relating to the material and equipment herein described, not expressly set forth in the agreement or any written modification. Any and all implied warranties of suitability or fitness for a particular purpose which exceed the above obligation are hereby disclaimed by Seller and excluded. Seller will not be liable for any consequential damages, loss or expense arising in connection with the use of, or the inability to use its goods for any purpose whatever. In any event, any liability of the Seller shall be limited to the purchase price of the materials and equipment herein described. Guarantee valid only if guarantee registration card is filled out and mailed to manufacturer within fourteen (14) days after machine is installed.

IMPORTANT

The Nieco Corporation reserves the right to change specifications and product design in accordance with the general terms and conditions outlined in the BURGER KING®/Vendor agreement. Such revisions do not entitle the buyer to corresponding changes, improvements, additions or replacements for previously purchased equipment.



